

IKO

New

Driver for Linear Motor Drive Table

ADVA

with New Features

Nano Linear

NT

with CE Certification

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ISO 9001 & 14001 Quality system registration certificate

CAT-2963E

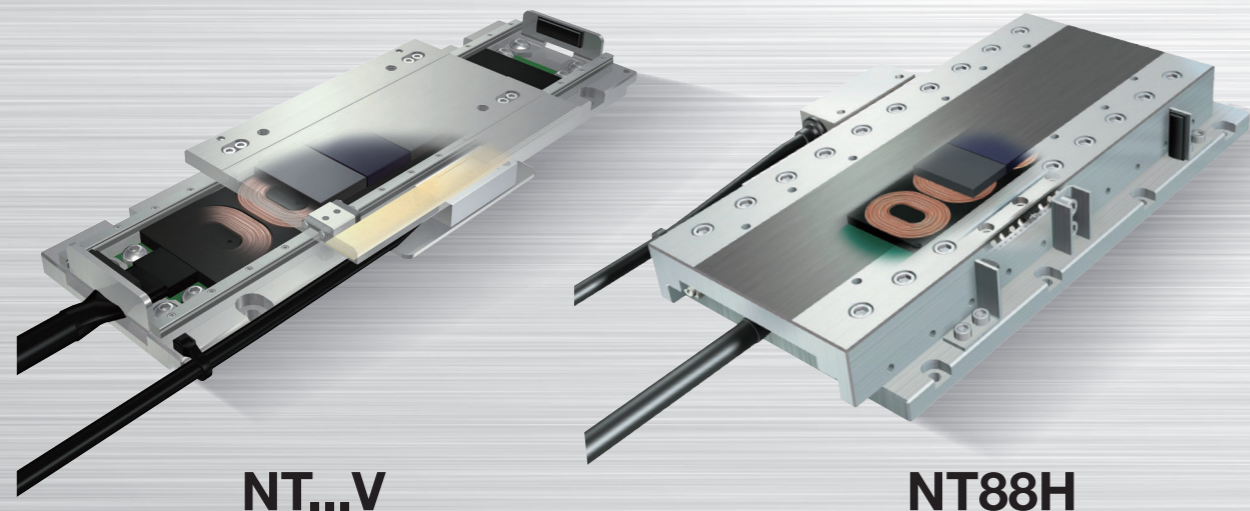
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NIPPON THOMPSON CO., LTD.



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Nano Linear NT Series Now Meets CE Standards.* (1)



The ultra-compact, advanced NT Series linear motor tables

Nano Linear NT is a moving magnet type linear motor table with an extremely low sectional height. A linear way or crossed roller way guide - both recognized as highly reliable miniature linear motion rolling guides - is used for the guiding part of the moving table. When used in combination with a linear motor and a high-resolution linear encoder, highly accurate positioning is possible. By utilizing a high-performance neodymium magnet, large thrust force can be attained, providing high-speed and highly responsive positioning, despite its very small body. In addition, by using a revolutionary driving method without moving cables and with the linear motion rolling guide as the only mechanical contact part, less dust is generated and a high level of cleanliness is achieved.

Supports CE Standards

CE marking indicates that a certain product sold in the EU complies with EU standards. This marking shows that the IKO Nano Linear NT series complies with the "Essential Requirements" stipulated in EU directives and regulations for each field.

* (1) Please contact IKO if you require a product with CE marking.

Nano Linear NT Products with CE Marking

Model and size	Standard type NT...V														High accuracy type NT...H			
	NT38V10		NT38V18		NT55V25		NT55V65		NT80V25		NT80V65		NT80V120		NT88H25		NT88H65	
Sectional shape																		
Maximum thrust	N 3		N 3		N 25		N 25		N 36		N 36		N 36		N 25		N 25	
Rated thrust	N 0.6		N 0.8		N 7		N 7		N 8		N 8		N 8		N 5		N 5	
Maximum load mass	kg 0.5		kg 0.5		kg 5		kg 5		kg 5		kg 5		kg 5		kg 5		kg 5	
Effective stroke length	mm 10		mm 18		mm 25		mm 65		mm 25		mm 65		mm 120		mm 25		mm 65	
Resolution	μm 0.1, 0.5		μm 0.1, 0.5		μm 0.1, 0.5		μm 0.1, 0.5		μm 0.1, 0.5		μm 0.1, 0.5		μm 0.1, 0.5		μm 0.01, 0.05		μm 0.01, 0.05	
Maximum speed	mm/s 270, 500		mm/s 270, 500		mm/s 270, 1000, 1300		mm/s 270, 1000, 1300		mm/s 270, 1000, 1300		mm/s 270, 1000, 1300		mm/s 270, 1000, 1300		mm/s 90, 400		mm/s 90, 400	
Positioning repeatability	μm ±0.5		μm ±0.5		μm ±0.5		μm ±0.5		μm ±0.5		μm ±0.5		μm ±0.5		μm ±0.1		μm ±0.1	

Driver for linear motor drive table ADVA with new features for highly accurate positioning!



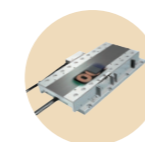
ADVA Specifications

- Applicable part numbers
 - NT series: NT55V, NT80V, NT...XZ, NT...XZH, NT88H
 - SA series: All part numbers
 - LT series: All part numbers

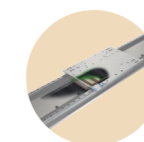
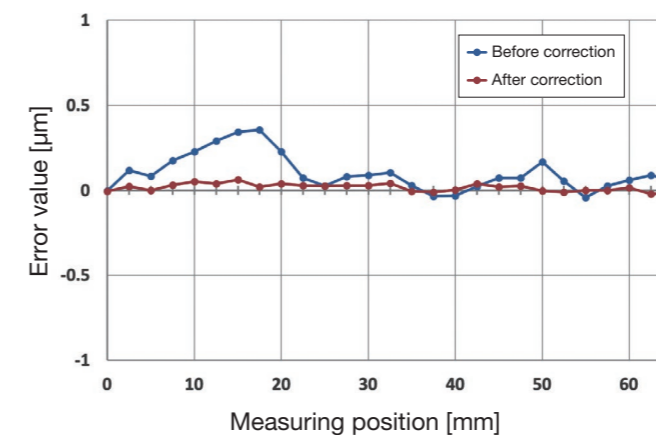
- Features
 - Supports the EtherCAT high speed motion network as well as conventional pulse train command input.
 - 10 input terminals, 6 output terminals, and analog input (0~±10 V) can be controlled by intelligent terminals.
 - The high level of controllability reduces settling time for even higher productivity.
 - The parameter configuration, monitor display, operation tracing and automatic tuning functions provided by the setup software make it easy to perform machine diagnostics and to start or adjust the linear motor.

New function: Positioning correction

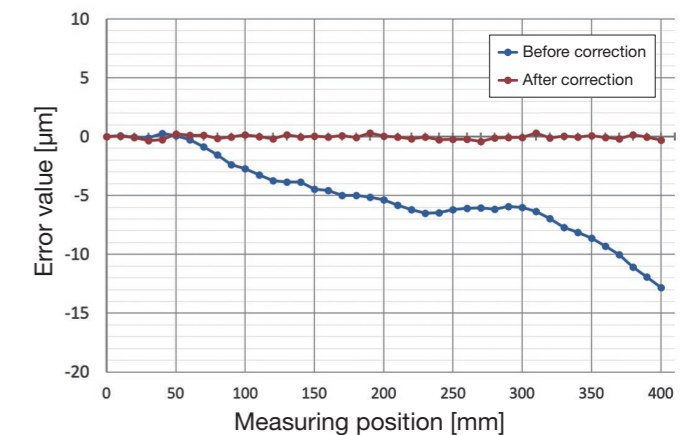
- This function corrects errors between the value read by the linear encoder and the actual position, based on position commands used during position control. Data is calculated to correct the position based on measurement data obtained using devices such as laser length measuring devices to accurately measure the actual position. This data will be saved to the ADVA driver. These saved positioning correction values are used to perform position control, allowing errors with the actual position to be corrected within the driver for highly accurate positioning.
- Simply enable the correction function to have the driver automatically perform correction during position control. (For details on use, refer to the ADVA Position Correction Function Instruction Manual found on the IKO Technical Service Site in the mechatronics product instruction manual downloads section.)



NT88H65 positioning accuracy: Measurement results



LT150CEGS400 positioning accuracy: Measurement results



The correction function makes it easy to improve positioning accuracy!